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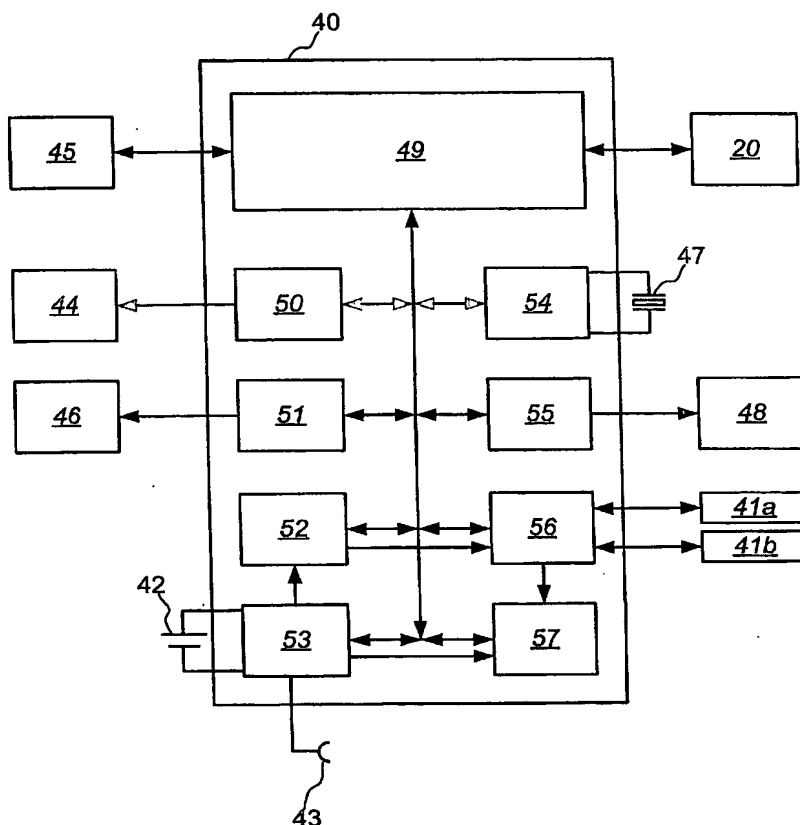
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(54) Title: **POWER MANAGEMENT UNIT FOR PORTABLE ELECTRONIC EQUIPMENT**



(57) Abstract: A power management unit (40) for a portable electronic apparatus is disclosed. The apparatus is powered by at least a battery (42), and the power management unit is implemented as an integrated circuit. The power management unit (40) may comprise a general purpose analog-to-digital converter block (57) comprising a first switch for selecting one of at least two analog input signals, and an analog-to-digital converter which is arranged to convert said selected analog input signal into a digital signal; an analog event generator block (52), which is arranged to provide an indication for controlling an operating state of said power management unit when an analog input signal assumes a predetermined relation to a predetermined reference value; a timer block (54), which is operable for providing a timing signal independently of which one of a plurality of operating states the power management unit is operable in; and/or a battery charge control block (53), which is capable of controlling a battery charge current based on an estimated charge power. Also disclosed is an electronic pen comprising the power management unit.

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